

Department of Energy Environmental Management Transportation Update

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Director, EM Office of Transportation**



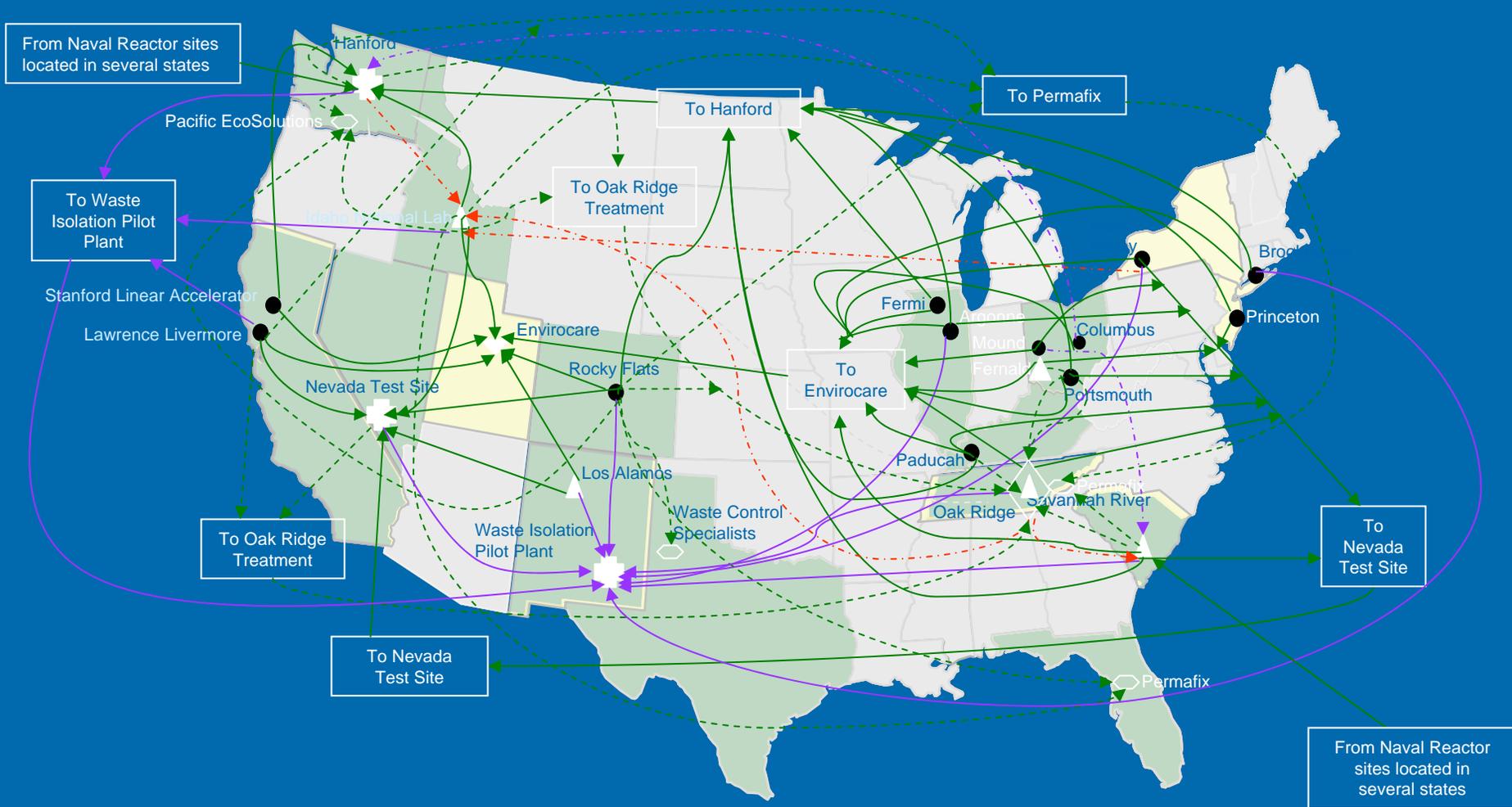
Transportation, Logistics and Waste Disposition are Key Contributors to the EM Project

- Ensuring disposition paths are identified for all EM waste and materials
- Providing and coordinating disposition resources
- Optimizing operations of DOE's waste management facilities
- Continuously improving EM's transportation operations and safety for the benefit of the public and the environment



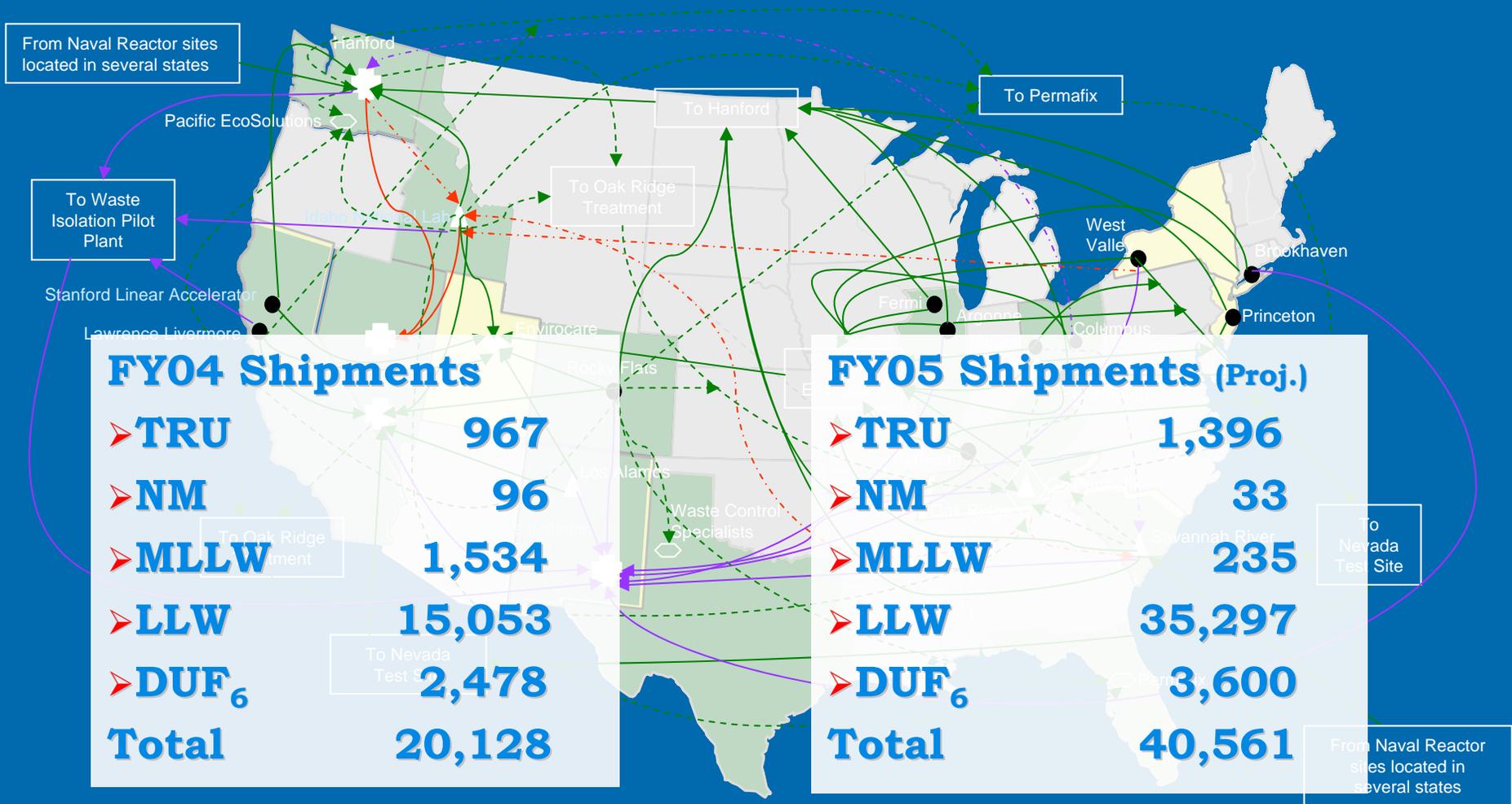
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Shipment lines do not portray actual transportation routes. This map is not inclusive of all past or planned shipments.



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EM has made significant progress in Transuranic (TRU) waste disposition

- Since March 1999, approximately 27,445m³ of contact-handled TRU waste shipped and disposed at WIPP.
- Over 3,463 truck shipments from 8 sites to WIPP
- Seven small quantity sites completed Legacy TRU
- Shipments from LLNL completed January 05.



TRU Shipping Corridors



Environmental Management Office of Transportation
Protecting the Public and the Environment in all aspects of our Transportation Operations

FY 2005 Outlook in the TRU program

- Rocky Flats shipments will complete in April 2005
 - Over 2,000 total shipments have/will be made to WIPP
 - Apply lessons learned to the complex
- Meet the Idaho Settlement Agreement Milestone of 6,000 cubic meters of TRU waste by the end of FY 05 and establish consistent shipping performance at Idaho
- Ship as much TRU waste as possible from Nevada to WIPP by the end of calendar year 2005
- Work with the Los Alamos National Laboratory to get the TRU program back online and shipping consistently
- Competitive procurements underway for carrier services and for an oversight office in Carlsbad



Transportation Safety is our Critical Focus

- EM Office of Transportation established and deployed to institutionalize transportation safety

- Transportation Risk Reduction
- Legislative & Regulatory Compliance
- Site Support & Logistics
- Emergency Preparedness
- Outreach



- In January 2005, the National Transportation Program transferred from Albuquerque to Headquarters and Transcom to Carlsbad



- ATMS
- Radtran
- TCEAP
- Tenders
- Tragis
- Radcalc
- MCAP
- Transcom



Transportation Risk Prioritization – allowing us to focus our efforts on our potentially higher risk movements

Shipping Site	Rec. Site	Waste	Mode	Forecast FY2005 Volume CuFT	Est. FY2005 Annual Ship'ts	Est. Avg. Route Mileage Per Trip	Est. Volume-Mile Per Year	Potential Pop. Exp. Per Trip	Potential Pop. Exp. Per Year	Vol. - Mile Rank	Pot. Pop. Exp. Rank	Move't Rank	Hazard Rank	Priority Rank
Site 1	Site A	LLW	Rail	4,641,000	442	2,117	9.82E+09	716,767	3.17E+08	4	4	16	9	144
Site 2	Site B	TRU	Truck	114,000	366	716	8.16E+07	185,646	6.79E+07	3	3	9	12	108
Site 3	Site C	MLLW	Truck	6,709	6	2,426	1.63E+07	816,948	4.90E+06	3	3	9	9	81
Site 4	Site A	MLLW	Truck	25,032	66	296	7.41E+06	102,480	6.76E+06	2	3	6	9	54
Site 1	Site D	LLW	Truck	22,905	22,905	6	1.37E+05	108	2.47E+06	2	3	6	9	54
Site 5	Site E	LLW	Truck	19,400	52	385	7.47E+06	674,357	3.51E+07	2	3	6	9	54

Methodology based on:

- Type of Material to be Transported
- Volume of Material to be Transported
- Number of Annual Shipments
- Trip Distance
- Population Exposure
- Prior Year Incident Rates



Significant coordination with States & Tribes occurs in planning shipments



- Emergency response preparedness
 - Highly skilled response teams are on call 24/7
- Transportation Emergency Preparedness Program (TEPP)
 - Planning, training, drills
- Increased dedication to working closely with states and tribes to ensure open and honest dialogue, understanding, and cooperation
 - Commodity flow survey, TransCAER workshops, and Regional state cooperative organizations



... as the number of shipments increases

- In FY 2004, we completed approximately 20,000 shipments of radioactive waste and material
 - Shipment numbers significantly increased as site cleanup and closure continue
 - Utilized both highway and rail shipments



EM is committed to tracking and communicating our transportation performance

- Key Performance Metric: Transportation Incidents/10,000 Shipments
- EM transportation incident criteria:
 - Any release of an EM material during transportation,
 - Any injury (either outpatient, first aid, minor injury, hospitalization, or fatality)
 - Any property damage to the transport vehicle or package
 - Any fines or violations
 - Any package damage or load securement problem
 - Any route deviation (for Transcom monitored shipments) or security breach
 - Any road closure or public evacuation
 - Any local or national media coverage



EM Transportation – Monitoring our performance for continuous improvement

FY 2004 Transportation Incidents:

- In FY 2004, EM had 23 reported off-site incidents.
 - Most significant incident was the release of radioactive material onto road surfaces at Oak Ridge
 - Other areas of concern -- load securement and shipping paper violations
- FY 2004 Incident Rate = 11.5 Incidents/10,000 shipments
- FY 2004 Transportation Incident Review
 - Management review of corrective actions and sharing of lessons learned among sites
 - Human error and training identified as improvement areas
 - Review of work procedures (checklists) and ensuring function specific training is completed.



We are seeking to become best in class

In FY 2005 year to date, EM has had 5* reported incidents representing a 44% reduction from the same period in FY2004

- 10/26/04 – (SR-NTS) Damaged drum-lid fastening ring, no release
- 1/18/05 – (RF-WIPP) Wrong waste box sent to WIPP, labeling and shipping paper error
- *2/15/05 – (OR) Dump truck – Private car accident. Truck in ditch with minor private car driver injuries
- 3/9/05 – (Portsmouth-Envirocare) Number of drums shipped not accurately reflected on shipping papers
- 3/11/05 – (BNL-Envirocare) Melted snow from railcar. Detectable but unquantifiable Cs and Am in melted snow. No detectable radioactivity on tracks or ground.
- 3/18/05 – (RF-WIPP) TRU waste transport vehicle involved in hit-and-run.



We want to hear from you!

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What do you want to hear . . .

**Next
Time?**



*Environmental Management Office of Transportation
Protecting the Public and the Environment in all aspects of our Transportation Operations*